**Appendix Table D27. Comparative effectiveness of sodium valproate vs. propranolol in preventing migraine in children (pooled with random effects models results from randomized controlled clinical trials)**

| **Outcome** | **Reference Risk of bias** | **Active drug**  **Dose vs. control drug, Dose** | **Events/randomized [rate of outcome in active group], %** | **Events/randomized [rate of outcome in control group], %** | **Relative risk**  **(95% CI)** | **Weight** | **Absolute risk difference**  **(95% CI)** | **Weight** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Reduction in frequency of migraine attack by at least 50% from baseline | Ashrafi, 200511 Risk of bias Unclear | Sodium valproate,10- 40mg/kg/day vs. Propranolol,1-3 mg/kg/day in two divided doses | 43/60 [72] | 41/60 [69] | 1.0  (0.8 to 1.3) | 54.62 | 0.03  (-0.13 to 0.20) | 54.2 |
| Bidabadi, 201012 Risk of bias Medium | Sodium valproate,15 -30mg/kg/day vs. Propranolol,2-3mg/kg/day | 20/31 [64.5] | 27/32 [84.4] | 0.8  (0.6 to 1.0) | 45.38 | -0.20  (-0.41 to 0.01) | 45.8 |
| P value=0.104  I squared=62.10% | Pooled | 63/91 [69.5] | 68/92 [74.4] | 0.9  (0.7 to 1.2) | 100 | -0.07  (-0.30 to 0.15) | 100 |
| Complete cessation of headache attacks | Ashrafi, 200511 Risk of bias Unclear | Sodium valproate,10- 40mg/kg/day vs. Propranolol,1-3 mg/kg/day in two divided doses | 13/60 [21] | 10/60 [17] | 1.3  (0.6 to 2.7) | 78.36 | 0.05  (-0.09 to 0.19) | 54.81 |
| Bidabadi, 201012 Risk of bias Medium | Sodium valproate,15 -30mg/kg/day vs. Propranolol,2-3mg/kg/day | 3/31 [9.68] | 4/32 [12.5] | 0.8  (0.2 to 3.2) | 21.64 | -0.03  (-0.18 to 0.13) | 45.19 |
| P value=0.5  I squared=0% | Pooled | 16/91 [17.1] | 14/92 [15.4] | 1.2  (0.6 to 2.2) | 100 | 0.02  (-0.09 to 0.12) | 100 |